

OILFIELD RESEARCH LABORATORIES

536 NORTH HIGHLAND - CHANUTE, KANSAS 66720 - PHONE (316) 431-2650

February 27, 1980

Jim's Water Service, Inc.
P.O. Box 3076
Inglewood, Colorado 80111

Gentlemen:

Enclosed herewith are the results of tests run on the rotary core taken from the Shireman Lease, Well No. 3, Bourbon County, Kansas, and submitted to our laboratory on February 18, 1980.

The core was sampled and sealed in plastic bags by a representative of the client.

Your business is greatly appreciated.

Very truly yours,

OILFIELD RESEARCH LABORATORIES


Sanford A. Michel

SAM/kas
4 c to Inglewood, Colorado
1 c to Erie, Kansas

- REGISTERED ENGINEERS -

CORE ANALYSIS - WATER ANALYSIS - REPRESSURING ENGINEERING - SURVEYING & MAPPING - PROPERTY EVALUATION & OPERATION

Oilfield Research Laboratories
GENERAL INFORMATION & SUMMARY

Company Jim's Water Service, Inc. Lease Shireman Well No. 3

Location 1270' N & 3520' W SE Corner

Section 24 Twp. 27S Rgs. 21E County Bourbon State Kansas

Elevation, Feet	-
Name of Sand	Tucker
Top of Core	617.0
Bottom of Core	623.0
Top of Sand	617.0
Bottom of Sand (Tested)	622.0
Total Feet of Permeable Sand	2.2

Distribution of Permeable Sand: Permeability Range Millidarcys	Feet	Cum. Ft.
0 - 0.50	1.2	1.2
1.5 & Above	1.0	2.2

Average Permeability Millidarcys	0.87
Average Percent Porosity	14.0
Average Percent Oil Saturation	28.7
Average Percent Water Saturation	52.8
Average Oil Content, Bbls./A. Ft.	319.
Total Oil Content, Bbls./Acre	1,339.

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LOG

Name Jim's Water Service, Inc. Lease Shireman Well No. 3

Depth Interval,
Feet

Description

617.0 - 618.8

Gray very shaly sandstone.

618.8 - 623.0

Brown and gray laminated sandstone and shale.

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RESULTS OF SATURATION & PERMEABILITY TESTS

TABLE 1-B

Company Jim's Water Service, Inc. Lease Shireman Well No. 3

Sample No.	Depth, Feet	Effective Porosity Percent	Percent Saturation		Oil Content Bbbs. / A Ft.	Perm., Mill.	Feet of Sand		Total Oil Content	Perm. Capacity Ft. X md.
			Oil	Water			Ft.	Cum. Ft.		
1	617.5	13.6	22	61	236	Imp.	1.0	1.0	236	0.00
2	619.5	14.3	38	43	422	0.27	1.2	2.2	506	0.32
3	620.5	11.5	21	67	187	Imp.	1.0	3.2	187	0.00
4	621.5	16.5	32	42	410	1.6	1.0	4.2	410	1.60

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SUMMARY OF PERMEABILITY & SATURATION TESTS

TABLE III

Company Jim's Water Service, Inc. Lease Shireman Well No. 3

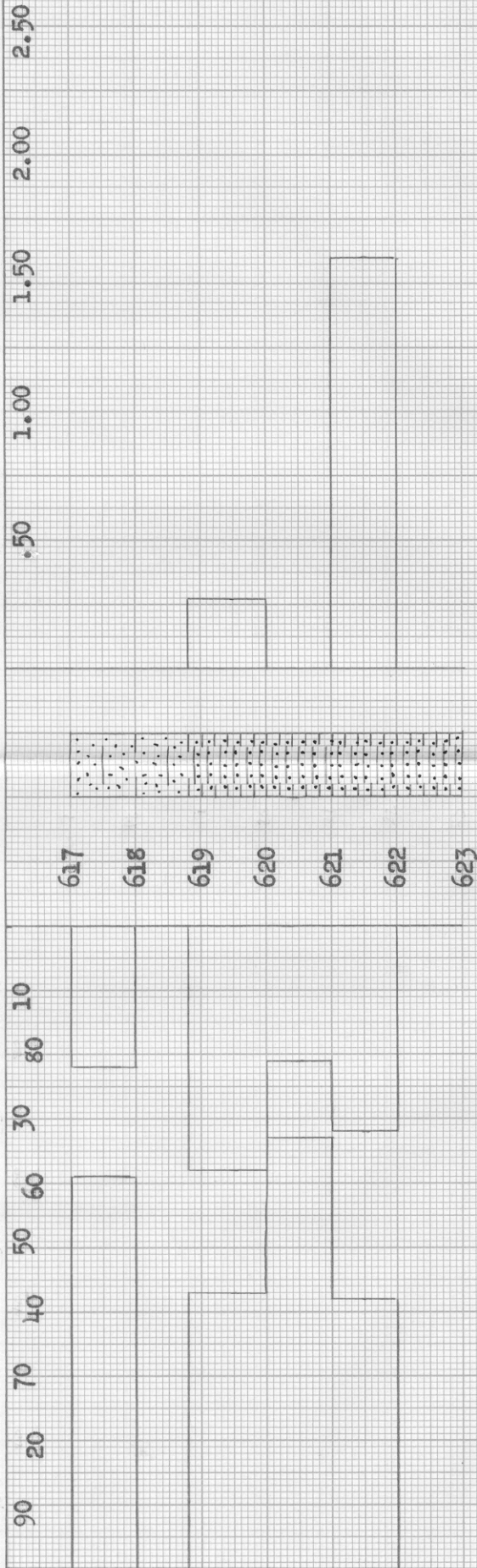
Depth Interval, Feet	Feet of Core Analyzed	Average Permeability, Millidarcys	Permeability Capacity Ft. x Md.
617.0 - 622.0	2.2	0.87	1.92

Depth Interval, Feet	Feet of Core Analyzed	Average Percent Porosity	Average Percent Oil Saturation	Average Percent Water Saturation	Average Oil Content Bbl./A. Ft.	Total Oil Content Bbls./Acre
617.0 - 622.0	4.2	14.0	28.7	52.8	319	1,339

WATER SAT.
PERCENT

OIL SAT.
PERCENT

PERMEABILITY, IN MILLIDARCS



KEY:

SHALY SANDSTONE

LAMINATED SANDSTONE AND SHALE

JIM'S WATER SERVICE, INC.

SHIREMAN LEASE

WELL NO. 3

BOURBON COUNTY, KANSAS

DEPTH INTERVAL, FEET	FEET OF CORE ANALYZED	AVERAGE POROSITY PERCENT	AVERAGE OIL SATURATION PERCENT	AVERAGE WATER SATURATION PERCENT	AVERAGE PERMEABILITY, MILLIDARCS
617.0 - 622.0	4.2	14.0	28.7	52.8	0.87

JIM'S WATER SERVICE, INC.

SHIREMAN LEASE

WELL NO. 3

BOURBON COUNTY, KANSAS

DEPTH INTERVAL, FEET	FEET OF CORE ANALYZED	AVERAGE PERCENT POROSITY	AVG. OIL SATURATION PERCENT	AVG. WATER SATURATION PERCENT	AVERAGE PERMEABILITY, MILLIDARCY
617.0 - 622.0	4.2	14.0	28.7	52.8	0.87

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CHANUTE, KANSAS
FEBRUARY, 1980. HR